EN

Radio-Controlled Projection Clock with FM Radio Model: RRM313P

Self-Setting Atomic Projection Clock with FM Radio Model: RRM313PA

USER MANUAL

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INTRODUCTION

Thank you for selecting the Oregon Scientific™ projection clock with FM radio.

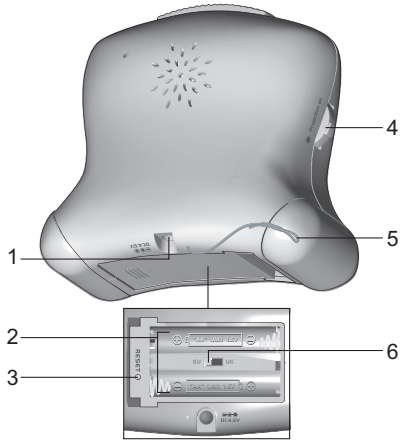
Keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know.

PRODUCT OVERVIEW

FRONT VIEW

1. **Snooze / Light:** Activate 8-minute snooze function, or backlight and projector
2. **:** Switch radio on or off
3. **Z^{Z}:** Activate sleep function
4. **Projector:** Projects time and alarm status
5. **Station/Tuning :** Toggle up or down through radio frequencies / memorized station
6. **VOL :** Increase or decrease volume
7. **((•)):** Toggle between alarm and calendar display
8. **MODE:** Toggle between setting modes / confirm settings
9. **:** Switch alarm on or off

BACK VIEW



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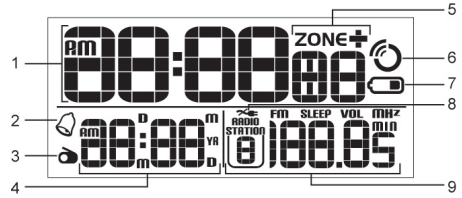
1. **4.5V AC / DC** Adapter Socket
2. **Battery Compartment (cover on)**: 2 x UM-3 / AA 1.5V batteries
3. **RESET:** Press to return all values to the default settings
4. **PROJECTION ON / OFF**: Slide to ON for continuous image projection when the AC power is connected
5. **Radio Antenna**
6. **EU / UK** (RRM313P only) Select nearest radio signal base i.e. England or Germany

LCD DISPLAY



1. Time
2. Alarm on / off
3. Radio alarm on / off
4. Alarm time / Calendar
5. Offset time zone
6. Radio-controlled clock reception
7. Battery status
8. AC adapter is disconnected
9. FM radio display / sleep / volume level

GETING STARTED

BATTERIES

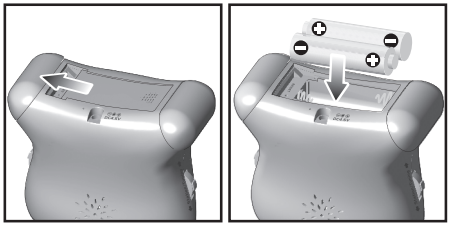
Batteries are supplied with this product:

- 2 x UM-3 / AA 1.5V batteries

NOTE The batteries are for back-up use only. Please use the adapter for continuous use.

NOTE It is recommended that you use alkaline batteries with this product for longer performance.

Insert batteries before first use, matching the polarity (+ and -) as shown below. Press **RESET** after each battery change.



NOTE Do not use rechargeable batteries with this product.

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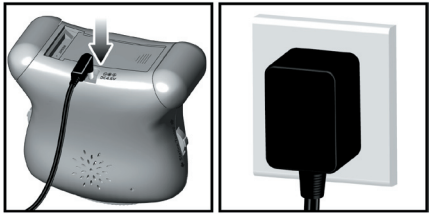
BATTERY ICON	MEANING
	Batteries are low, or there are no batteries installed and only the adapter is connected

AC ADAPTER

The batteries serve as a back-up power supply. For continuous use of the projector, install the AC adapter at the base of the unit as shown below.



NOTE To help conserve energy, turn the **Projection on** switch to OFF when you do not wish to use it.

CLOCK RECEPTION

This product is designed to synchronize its calendar clock automatically once it is brought within range of a radio signal:

RRM313P:
- DCF-77 generated from Frankfurt, Germany for Central Europe
- MSF-60 generated from Rugby, England

The radio signal range is 1500km (932 miles).

RRM313PA:
- WWVB-60 generated from the atomic clock in Fort Collins, Colorado

The radio signal range is 3219km (2000 miles).

RRM313 only - slide the **EU / UK** switch to the appropriate setting based on your location. Press **RESET** whenever you change the selected setting.

NOTE For best results, place the clock away from metal or electrical objects, and near a window with a clear view to the sky.

TURN THE RADIO RECEPTION ON / OFF

To turn the radio reception ON:
- Press ▲ **VOL** and hold for 2 seconds.
- The reception icon will appear and flash on the display to indicate it is searching for the signal.

Once batteries have been installed in the clock, the reception icon will flash to indicate it is searching for a signal.

When the reception signal has been received the reception icon will show the signal strength by displaying between 0 and 3 waves:

STRONG SIGNAL	WEAK SIGNAL	NO SIGNAL

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To turn the radio reception OFF:

- Press and hold VOL ▼ for 2 seconds.
- The reception icon will disappear from the display.

CLOCK / CALENDAR

CLOCK / CALENDAR DISPLAY

Press **MODE** to toggle between 3 types of display (Clock with seconds, Clock with day, Clock with time zone offset).

SET CLOCK / CALENDAR

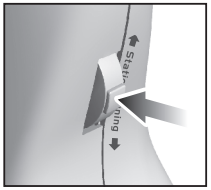
1. Press and hold **MODE** for 2 seconds. The time zone offset hour digits will flash. When an offset hour has been set (e.g. +1), the time displayed will be the radio-controlled clock time plus 1 hour.
2. Press ▲ VOL or VOL ▼ to change the setting.
3. Press **MODE** to confirm the setting and move onto the next one.
4. The settings appear in the following order: Time zone hour offset, 12 / 24 hour format, hour, minute, year, MM / DD or DD / MM format, month, day and language for day of the week.
5. Press ((•)), ⏻, ⬅ Station/Tuning ➡, z^z or ⏻ to exit the Clock Setting Mode.

FM RADIO

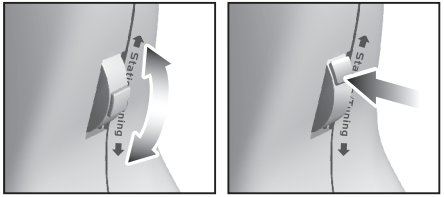
This product has a built-in FM radio that can store up to 8 stations. In order to conserve power, the FM radio only works when the AC adapter is plugged in.

OPERATING THE RADIO

1. Press ⏻ to switch the radio on.
2. Press ▲ VOL ▼ to change the radio volume.
3. Press ⬅ Station/Tuning ➡ straight in to scroll through the 8 preset channels.



4. Roll ⬅ Station/Tuning ➡ towards the up or down arrow to change the selected channel's radio frequency.



Roll and hold ⬅ Station/Tuning ➡ to enable auto-search for an available frequency. Press ⬅ Station/Tuning ➡ straight in to store the radio station.

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SLEEP

The radio is equipped with a countdown sleep timer that can be set to switch the radio off after up to 120 minutes.

1. Press **zz** to enter sleep mode.
2. Use the **zz** button to change the sleep time setting (120, 90, 60, 45, 30, 15, 0).
3. Press any key to exit sleep mode – the sleep timer will be automatically activated.

BACKLIGHT

Press **Snooze** / **Light** to activate the backlight for 5 seconds.

ALARM

ALARM DISPLAY AND SOUND

This product has two types of daily alarm that can be set to go off at the same time every day. You can choose to be woken up by the radio or by a buzzer alarm. Press **((•))** at any time to toggle between the calendar and the alarm display.

NOTE If the radio alarm time is reached when the AC adapter is not connected the unit will default to buzzer alarm.

SET THE ALARM(S)

1. Press and hold **((•))** for 2 seconds.
2. Use ▲ **VOL** or **VOL** ▼ to change the flashing setting.
3. Press **((•))** to confirm the setting and move onto the next one.
4. The settings appear in the following order: Hour, minute, alarm type (i.e. radio alarm or buzzer alarm).
5. If radio alarm is selected, preset station and preset volume can also be altered.
6. Press **((•))** to exit alarm setting mode.
7. The daily alarm will be on automatically after setting.

ACTIVATE / DEACTIVATE THE ALARM(S)

- Press to enable or disable the daily alarm.
- When the buzzer alarm / radio alarm icon appears on the display the alarm is activated. When the icons do not appear the buzzer alarm / radio alarm is deactivated.

SNOOZE / TURNING THE ALARM OFF

When activated, the alarm icon flashes, the backlight and projector turn on for 8 seconds. The buzzer alarm sounds for 2 minutes if no key is pressed. The radio will remain on for 120 minutes if no key is pressed.

To silence the alarm:

- Press **Snooze** / **Light** to silence the buzzer alarm for 8 minutes. The buzzer alarm icon will flash to show snooze is enabled. (Please note that you cannot use the snooze function on the radio alarm.)

OR

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- Press any key except **Snooze** / **Light** to mute any alarm and activate it again in 24 hours.

PROJECTION UNIT

The projection unit can display both time and alarm status. To use this feature:

- Slide the ◀ **Projection on** switch **ON** to activate continuous projection. However, this function will not work unless the AC / DC adapter is used.

NOTE You can also press the **Snooze** / **Light** button to project the time and alarm status for 5 seconds.

RESET THE CLOCK

To reset the unit, insert a thin blunt instrument into the reset hole.

WARNINGS

This product is designed to give you years of service if handled properly. Oregon Scientific will not be responsible for any deviations in the usage of the device from those specified in the user instructions or any unapproved alterations or repairs of the product. Observe the following guidelines:

- Do not clean any part of the product with benzene, thinner or other solvent chemicals – this may cause permanent damage that is not covered by the guarantee. When necessary, clean it with a damp cloth.
- Never immerse the product in water. This can cause electrical shock and damage the product.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types.
- Do not use rechargeable batteries with this product.
- Remove the batteries if storing this product for a long period of time.
- Do not scratch the LCD display.
- Placement of this product on wood surfaces with certain types of finishes, such as clear varnish, may result in damage to the finish. Consult the furniture manufacturer's care instructions for direction as to the types of objects that may safely be placed on the wood surface. Oregon Scientific shall not be responsible for any damage to wood surfaces from contact with this product.
- Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

NOTE The technical specification of this product and contents of this user manual are subject to change without notice. Images not drawn to scale.

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TROUBLESHOOTING

PROBLEM	SYMPTOM	REMEDY
Clock time is not correctly set	No radio signal reception	Place the clock far away from PCs, phones, and other electronic equipment and near a windowsill. Wait for at least 24 hours
No alarm	Alarm does not sound	Turn on the setting
Operation not normal	Certain functions do not perform	Reset the clock
Calendar	Strange day	Check it is set to your own language
Clock	Cannot change clock	Disable the radio signal and set manually
Clock / Calendar	Cannot auto-synchronize the clock	1. Adjust batteries 2. Press **RESET**

TECHNICAL SPECIFICATIONS

TYPE	DESCRIPTION
Main Unit Dimensions	
L x W x H	110 x 57 x 100 mm (4.33 x 2.24 x 4.05 inches)
Weight (without battery)	201 g (0.44 lbs)
Main Unit RF	
RF Clock Frequency System	DCF-77 (EU), MSF60 (UK) and WWVB-60 (US)
Synchronization	Auto or disabled
FM Band Range	87.5-108.0 MHz
Main Unit Display	
Clock	HH:MM:SS HH:MM: Day of week HH:MM: Time zone hour offset
Hour Format	12hr AM / PM (MSF Format) 24hr (DCF Format)
Calendar	DD / MM or MM / DD, user selectable. Weekday language: E, D, F, I, S.
Alarm	• 2-minute alarm • 8-minute snooze
Power	
Main Unit	2 x UM-3 / AA 1.5V batteries or 4.5V AC / DC adapter

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NOTE It is recommended that you use alkaline batteries with this product for longer performance.

NOTE Design and specifications are subject to change without notice.

NOTICES

STATEMENT OF RESPONSIBILITY

Oregon Scientific will not be held liable for any bodily injury, death, property damages, or any other claims of whatever nature resulting from the misuse or negligence of the product, whether intentional or unintentional.

Oregon Scientific will not be responsible for any deviations in the usage of the device from those specified in the user instructions or any unapproved alternations or repairs of the product.

ABOUT OREGON SCIENTIFIC

Visit our website (www.oregonscientific.com) to learn more about Oregon Scientific products such as digital cameras; MP3 players; children's electronic learning products and games; projection clocks; health and fitness gear; weather stations; and digital and conference phones. The website also includes contact information for our Customer Care department in case you need to reach us, as well as frequently asked questions and customer downloads.

We hope you will find all the information you need on our website, however if you're in the US and would like to contact the Oregon Scientific Customer Care department directly, please visit:
www2.oregonscientific.com/service/default.asp

OR
Call 1-800-853-8883.

For international inquiries, please visit:
www2.oregonscientific.com/about/international.asp

EU-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Radio-Controlled Projection Clock with FM Radio (RRM313P) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.

CE

COUNTRIES RTTE APPROVAL COMPLIED

ALL EU countries, Switzerland (CH)
and Norway (N)

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FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

DECLARATION OF CONFORMITY

The following information is not to be used as contact for support or sales. Please call our customer service number (listed on our website at www.oregonscientific.com), or on the warranty card for this product) for all inquiries instead.

We

Name:	Oregon Scientific, Inc.
Address:	19861 SW 95th Ave.,Tualatin, Oregon 97062 USA
Telephone No.:	1-800-853-8883

declare that the product

Product No.:	RRM313P / RRM313PA
Product Name:	Self-Setting Atomic Projection Clock with FM Radio
Manufacturer:	IDT Technology Limited
Address:	Block C, 9/F, Kaiser Estate, Phase 1,41 Man Yue St., Hung Hom, Kowloon, Hong Kong

is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference. 2) This device must accept any interference received, including interference that may cause undesired operation.

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Radio-Controlled Projection Clock with FM Radio Model: RRM313P

Self-Setting Atomic Projection Clock with FM Radio Model: RRM313PA

USER MANUAL

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